ANEY BA	Year	3		Торіс	Rocks	
PRIMARY	 Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how fossils are formed when things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter. 					
	Prior learning			Future learning	3	
 Everyday materia Identify and name glass, metal, water Describe the simpl (Y1 - Everyday materia) Compare and grout of their simple physical Identify and compares including wood, metal 	a variety of everyday materials, inc , and rock. (Y1 - Everyday materia e physical properties of a variety of	cluding wood, plastic, ls) f everyday materials. aterials on the basis aterials) ryday materials,	••	Recognise that living things have changed provide information about living things that years ago. (Y6 - Evolution and inheritance) The composition of the Earth. (KS3) The structure of the Earth. (KS3) The rock cycle and the formation of igneous metamorphic rocks. (KS3)	inhabited the Earth millions of	

WHAT PUPILS NEED TO KNOW OR DO TO BE SECURE							
Show understanding of a concept using scientific vocabulary correctly							
Key learning	Possible evidence						
Rock is a naturally occurring material. There are different types of rock e.g. sandstone, limestone, slate etc. which have different properties. Rocks can be hard or soft. They have different sizes of grain or crystal. They may absorb water. Rocks can be different shapes and sizes (stones, pebbles, boulders). Soils are made up of pieces of ground down rock which may be mixed with plant and animal material (organic matter). The type of rock, size of rock pieces and the amount of organic matter affect the property of the soil.	 Can name some types of rock and give physical features of each Can explain how a fossil is formed Can explain that soils are made from rocks and also contain living/dead matter 						
Some rocks contain fossils. Fossils were formed millions of years ago. When plants and animals died, they fell to the seabed. They became covered and squashed by other material. Over time the dissolving animal and plant matter is replaced by minerals from the water.							

Key vocabulary	
Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, f marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil	fossil,
Common misconception	IS
Some children may think:	
 rocks are all hard in nature rock-like, man-made substances such as concrete or brick are rocks materials which have been polished or shaped for use, such as a granite worktop, a certain found artefacts, like old bits of pottery or coins, are fossils • a fossil is soil and compost are the same thing. 	are not rocks as they are no longer 'natural' an actual piece of the extinct animal or plant
Apply knowledge in familiar related contexts, incl	luding a range of enquiries
Activities	Possible evidence
 Observe rocks closely. Classify rocks in a range of ways, based on their appearance. Devise a test to investigate the hardness of a range of rocks. Devise a test to investigate how much water different rocks absorb. Observe how rocks change over time e.g. gravestones or old building. Research using secondary sources how fossils are formed. Observe soils closely. Classify soils in a range of ways based on their appearance. Devise a test to investigate the water retention of soils. Observe how soil can be separated through sedimentation. Research the work of Mary Anning. 	 Can classify rocks in a range of different ways, using appropriate vocabulary Can devise tests to explore the properties of rocks and use data to rank the rocks Can link rocks changing over time with their properties e.g. soft rocks get worn away more easily Can present in different ways their understanding of how fossils are formed e.g. in role play, comic strip, chronological report, stop-go animation etc. Can identify plant/animal matter and rocks in samples of soil Can devise a test to explore the water retention of soils